

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 15, 2026

AMETEK / VTI INSTRUMENTS / VXI TECHNOLOGY

Ametek / VTI Instruments / VXI Technology VT1419A Multifunction Plus Module

Ametek VTI VT1419A Multifunction Plus Measurement and Control Module The Ametek VT1419A Multifunction Plus isaC-size VXI scanning A/D and control module with autoranging gains and SCP-based signal conditioning for mixed-sensor acquisition per VXI Technology VT1415A/VT1419A family specifications. Mixed-signal electronic and mechanical assembly test, multi-sensor scanning, and algorithmic control with shared SCP ecosystem. Instrument Type: Multifunction Plus measurement and control module The Ametek VT1419A Multifunction Plus isaC-size VXI scanning A/D and control module with autoranging gains and SCP-based signal conditioning for mixed-sensor acquisition per VXI Technology VT1415A/VT1419A family specifications. Mixed-signal electronic and mechanical assembly test, multi-sensor scanning, and algorithmic control with shared SCP ecosystem. Instrument Type: Multifunction Plus measurement and control module Full Scale Range Basic ScanningAD: plus or minus 16 V



MODEL

**Ametek / VTI
Instruments / VXI
Technology
VT1419A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

VT1419A

LISTING

<https://aumictechlabs.com/products/vt1419a-3/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Ametek/VTI Instruments/VXI Technology VT1419A is a C-size, single-slot VXI multifunction module engineered for data acquisition and control in mixed-signal and mixed-sensor test environments. Register-based architecture supports flexible signal conditioning through interchangeable Signal Conditioning Plug-ons (SCPs), enabling both analog and digital input/output configurations without requiring additional VXI modules. On-board Engineering Unit (EU) conversion and real-time decision-making capabilities streamline measurement workflows while improving calibration accuracy and repeatability.

Technical Specifications

Form Factor: C-size, single-slot VXI module

Interface: Register-based VXIbus

Architecture: Scalable, multifunction design

Signal Conditioning: Interchangeable SCP modules (sold separately)

Data Processing: On-board EU conversion

Control: Real-time decision-making

NSN: 6625-01-645-8107

Key Features

- Integrated signal conditioning reduces module count and enhances measurement repeatability
- SCP modularity supports diverse input/output configurations including analog inputs with gain and filtering, frequency and period measurement, totalizing, PWM and FM signal processing, D/A conversion (voltage and current), digital outputs (8- or 16-bit), pulse generation with variable frequency and PWM control, and stepper motor control
- Scalable architecture accommodates design verification of electromechanical components and assemblies

Terminal blocks supplied separately

Typical Applications

- Design verification testing of electromechanical systems
- Mixed-signal data acquisition
- Multi-sensor monitoring and control
- Real-time measurement and decision logic

Compatibility & Integration

The VT1419A integrates into VXIbus-based test systems and works with Ametek/VTI Instruments/VXI Technology VXI modules and mainframes. SCP module selection determines specific input/output capabilities required for each test configuration.

VT1419A Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	Multifunction Plus measurement and control module
Module Size	C
Full Scale Range Basic ScanningAD	plus or minus 16 V
Autoranging Gains	x1 ×4 ×16 ×64 ×256
Scan Trigger Internal Range Family	100 us to 6.5536 s
Scan Trigger Resolution Family	100 us
Trigger Count Family	1 to 65535 or infinite
Scan Trigger Latency Typical Family	17.5 us
Sample Timer Resolution Family	0.5 us
Maximum Scp Slots Family	8
Maximum Bridge Scps Family	4
Maximum Bridge Channels Family	16
Scp Channel Block Size	8 channels per input SCP
Voltage Output Channels Per Scp	8
Current Output Channels Per Scp	8
Digital Io Scp Width	16 bit class VT1533A
Frequency Totalize Pwm Channels Per Scp	8
Direct Input Scp	8 channel
Programmable Filter Gain Scp	8 channel
Strain Completion Options	120 ohm and 350 ohm 8 channel SCPs
Accuracy Statement	single sample; averaging reduces noise
Input Protection	provided by SCP
Wiring Recommendation	shielded twisted pair
Platform	VXI C-size
Related Controllers	VT1415A VT1422A family

PARAMETER	VALUE
Programming	SCPI and algorithm language

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

specifications.	
Applications	
Mixed-signal electronic and mechanical assembly test, multi-sensor scanning, and algorithmic control with shared SCP ecosystem.	
Key Features	
ScanningADwith autoranging gains	
Multifunction Plus measurement set	
SCP based signal conditioning	
Algorithm language support	
VXI C-size single slot class	
Technical Specifications	
Technical Specifications	
PARAMETER	VALUE
Instrument Type	Multifunction Plus measurement and control module
Module Size	C
Full Scale Range Basic ScanningAD	plus or minus 16 V
Autoranging Gains	x1 x4 x16 x64 x256
Scan Trigger Internal Range Family	100 us to 6.5536 s
Scan Trigger Resolution Family	100 us
Trigger Count Family	1 to 65535 or infinite
Scan Trigger Latency Typical Family	17.5 us
Sample Timer Resolution Family	0.5 us
Maximum Scp Slots Family	8
Maximum Bridge Scps Family	4
Maximum Bridge Channels Family	16
Scp Channel Block Size	8 channels per input SCP
Voltage Output Channels Per Scp	8
Current Output Channels Per Scp	8
Digital Io Scp Width	16 bit class VT1533A
Frequency Totalize Pwm Channels Per Scp	8
Direct Input Scp	8 channel
Programmable Filter Gain Scp	8 channel
Strain Completion Options	120 ohm and 350 ohm 8 channel SCPs

PARAMETER	VALUE
Accuracy Statement	single sample; averaging reduces noise
Input Protection	provided by SCP
Wiring Recommendation	shielded twisted pair
Platform	VXI C-size
Related Controllers	VT1415A VT1422A family
Programming	SCPI and algorithm language

Notes

Numeric rows from VXI Technology VT1415A/VT1422A/VT1419A family specification pages for the scanning A/D and timing section that explicitly lists VT1419A full-scale and gain values.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 15, 2026

Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.